BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

PRE-MEASUREMENT

Name of work:	Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.
Estimated Cost :	Rs. 60.00 Lakhs
Job Code:	011-23-000012
Head of Account :	P-3726 Zonal Public Works - POW Works
Name of Agency:	Sri .Sambashiva, No. 04, 3rd Main Road, Chamundeshwari Layout, Doddabommasandra, Vidyaranyapura (Post), Bengalurur - 560097.
Work order No:	BBMP/EE/BTP/WO/206/2022-23 Dated: 28-03-2023.

Measurements Recarded on : 13.05.2023

Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
1	Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.						
	New Drain						
	Canara Bank Layout 12th Main						
	N/S	1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	18.40	1.10	1.00	20.24	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	1.80	1.10	1.00	1.98	
	S/S						
		1	30.00	1.10	1.00	33.00	
		1	5.40	1.10	1.00	5.94	
		1	30.00	1.10	1.00	33.00	
		1	2.20	1.10	1.00	2.42	
		1	10.00	1.10	1.00	11.00	
		1	12.70	1.10	1.00	13.97	
		1	30.00	1.10	1.00	33.00	
		1	3.50	1.10	1.00	3.85	
	4th Cross G P Rajarathnam Road						
	E/S	1	30.00	1.10	1.00	33.00	
		1	14.20	1.10	1.00	15.62	
		1	11.30	1.10	1.00	12.43	
		1	30.00	1.10	1.00	33.00	
		1	14.60	1.10	1.00	16.06	
		1	10.20	1.10	1.00	11.22	

13/5

Assistant Executive
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BBMP, Bangal

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Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
	3rd Cross Road						
		1	30.00	1.10	1.00	33.00	
		1	17.20	1.10	1.00	18.92	
	2nd Main Road						
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	4.30	1.10	1.00	4.73	
	Culvert						
	4th Cross GP Rajarathnam Road N/S	1	13.00	1.40	1.00	18.20	
	4th Cross GP Rajarathnam Road S/S	1	11.10	1.40	1.00	15.54	
	Canara Bank Layout Main Road near Ground	1	15.70	1.40	1.00	21.98	
		Total Qty =				**656.10**	
		Qty Limited to Approved Qty =				**645.00**	Cum

Assistant Engineer
Ward No. 11, Byatarayanapura

Assistant Executive Engineer
Kodigehalli Sub-Division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit
	Measurements Recarded on : 02/06/2023						
2	Providing and laying in position Plain Cement Concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications.						
	New Drain						
	Canara Bank Layout 12th Main						
	N/S	1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	18.40	1.10	0.15	3.03	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	1.80	1.10	0.15	0.29	
	S/S						
		1	30.00	1.10	0.15	4.95	
		1	5.40	1.10	0.15	0.89	
		1	30.00	1.10	0.15	4.95	
		1	2.20	1.10	0.15	0.36	
		1	10.00	1.10	0.15	1.65	
		1	12.70	1.10	0.15	2.09	
		1	30.00	1.10	0.15	4.95	
		1	3.50	1.10	0.15	0.57	
	4th Cross G P Rajarathnam Road						
	E/S	1	30.00	1.10	0.15	4.95	
		1	14.20	1.10	0.15	2.34	
		1	11.30	1.10	0.15	1.86	
	W/S	1	30.00	1.10	0.15	4.95	
		1	14.60	1.10	0.15	2.40	
		1	10.20	1.10	0.15	1.68	
	3rd Cross Road	1	30.00	1.10	0.15	4.95	
		1	17.20	1.10	0.15	2.83	
	2nd Main Road	1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	4.30	1.10	0.15	0.70	
		-1	12.50	1.10	0.15	-2.06	
	Culvert						
	4th Cross GP Rajarathnam Road N/S	1	13.00	1.30	0.15	2.53	
	4th Cross GP Rajarathnam Road S/S	1	11.10	1.30	0.15	2.16	
	Canara Bank Layout Main Road near Ground	1	15.70	1.30	0.15	3.06	
		Total Qty =				**95.68**	
		Qty Limited to Approved Qty =				**95.17**	Cum

2/6/23

Assistant Executive Engineer
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Assistant Engineer
Ward No. 11, Byatarayanapura

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BBMP, Bangalore

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit
	Measurements Recarded on : 17/06/2023						
3	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately)						
	New Drain						
	Raft						
	Canara Bank Layout 12th Main						
	N/S	1	30.00	1.00	0.15	4.50	
		1	30.00	1.00	0.15	4.50	
		1	18.40	1.00	0.15	2.76	
		1	30.00	1.00	0.15	4.50	
		1	30.00	1.00	0.15	4.50	
		1	1.80	1.00	0.15	0.27	
	S/S						
		1	30.00	1.00	0.15	4.50	
		1	5.40	1.00	0.15	0.81	
		1	30.00	1.00	0.15	4.50	
		1	2.20	1.00	0.15	0.33	
		1	10.00	1.00	0.15	1.50	
		1	12.70	1.00	0.15	1.90	
		1	30.00	1.00	0.15	4.50	
		1	3.50	1.00	0.15	0.52	
	4th Cross G P Rajarathnam Road						
	E/S	1	30.00	1.00	0.15	4.50	
		1	14.20	1.00	0.15	2.13	
		1	11.30	1.00	0.15	1.69	
		1	30.00	1.00	0.15	4.50	
		1	14.60	1.00	0.15	2.19	
		1	10.20	1.00	0.15	1.53	
	3rd Cross Road						
		1	30.00	1.00	0.15	4.50	
		1	17.20	1.00	0.15	2.58	
	2nd Main Road						
		1	30.00	1.00	0.15	4.50	
		1	30.00	1.00	0.15	4.50	
		1	30.00	1.00	0.15	4.50	
		1	30.00	1.00	0.15	4.50	
		1	4.30	1.00	0.15	0.64	
		-1	12.50	1.00	0.15	-1.88	
	Side Wall						
	Canara Bank Layout 12th Main						
	N/S	2	30.00	0.15	0.61	5.49	
		2	30.00	0.15	0.60	5.40	
		2	18.40	0.15	0.60	3.31	

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Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit
		2	30.00	0.15	0.58	5.22	
		2	30.00	0.15	0.59	5.31	
		2	1.80	0.15	0.60	0.32	
	S/S						
		2	30.00	0.15	0.60	5.40	
		2	5.40	0.15	0.60	0.97	
		2	30.00	0.15	0.61	5.49	
		2	2.20	0.15	0.61	0.40	
		2	10.00	0.15	0.60	1.80	
		2	12.70	0.15	0.62	2.36	
		2	30.00	0.15	0.60	5.40	
		2	3.50	0.15	0.59	0.61	
	4th Cross G P Rajarathnam Road						
	E/S	2	30.00	0.15	0.60	5.40	
		2	14.20	0.15	0.60	2.55	
		2	11.30	0.15	0.59	2.00	
		2	30.00	0.15	0.60	5.40	
		2	14.60	0.15	0.59	2.58	
		2	10.20	0.15	0.59	1.80	
	3rd Cross Road						
		2	30.00	0.15	0.59	5.31	
		2	17.20	0.15	0.60	3.09	
	2nd Main Road						
		2	30.00	0.15	0.60	5.40	
		2	30.00	0.15	0.60	5.40	
		2	30.00	0.15	0.62	5.58	
		2	30.00	0.15	0.60	5.40	
		2	4.30	0.15	0.58	0.74	
		2	12.50	0.15	0.30	1.13	
	Culvert						
	Raft						
	4th Cross GP Rajarathnam Road N/S	1	13.00	1.30	0.20	3.38	
	4th Cross GP Rajarathnam Road S/S	1	11.10	1.30	0.20	2.88	
	Canara Bank Layout Main Road near Ground	1	15.70	1.30	0.20	4.08	
	Side Wall						
	4th Cross GP Rajarathnam Road N/S	2	13.00	0.30	0.65	5.07	
	4th Cross GP Rajarathnam Road S/S	2	11.10	0.30	0.65	4.33	
	Canara Bank Layout Main Road near Ground	2	15.70	0.30	0.65	6.12	
		Total Qty =				**205.09**	
		Qty Limited to Approved Qty =				**205.03**	Cum

12/6/23

Assistant Executive Engineer
Kodigehalli Sub Division
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Assistant Engineer
Ward No. 11, Byatarayanapura

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BBMP, Bangalore

Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
	Measurements Recarded on : 18/06/2023						
4	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. MORTH Specification NO.1600&2200						
	RCC Drain	**No of Rods**	**L of Bars**	**Mtrs**	**Kg/m**	**Kgs**	
	U' Shape Rods						
	10 mm	654	2.10	1373.40	0.62	851.51	
	Distribution Rods						
	8mm	18	78.40	1411.20	0.39	550.37	
	U' Shape Rods						
	10 mm	515	2.10	1081.50	0.62	670.53	
	Distribution Rods						
	8mm	18	61.80	1112.40	0.39	433.84	
	U' Shape Rods						
	10 mm	295	2.10	619.50	0.62	384.09	
	Distribution Rods						
	8mm	18	35.40	637.20	0.39	248.51	
	U' Shape Rods						
	10 mm	269	2.10	564.90	0.62	350.24	
	Distribution Rods						
	8mm	18	32.20	579.60	0.39	226.04	
	U' Shape Rods						
	10 mm	84	2.10	176.40	0.62	109.37	
	Distribution Rods						
	8mm	18	10.00	180.00	0.39	70.20	
	U' Shape Rods						
	10 mm	106	2.10	222.60	0.62	138.01	
	Distribution Rods						
	8mm	18	12.70	228.60	0.39	89.15	
	U' Shape Rods						
	10 mm	280	2.10	588.00	0.62	364.56	
	Distribution Rods						
	8mm	18	33.50	603.00	0.39	235.17	
	U' Shape Rods						
	10 mm	463	2.10	972.30	0.62	602.83	
	Distribution Rods						
	8mm	18	55.50	999.00	0.39	389.61	
	U' Shape Rods						
	10 mm	457	2.10	959.70	0.62	595.01	
	Distribution Rods						
	8mm	18	54.80	986.40	0.39	384.70	
	U' Shape Rods						
	10 mm	394	2.10	827.40	0.62	512.99	
	Distribution Rods						
	8mm	18	47.20	849.60	0.39	331.34	
	U' Shape Rods						
	10 mm	1036	2.10	2175.60	0.62	1348.87	
	Distribution Rods						
	8mm	18	124.30	2237.40	0.39	872.59	
	Culverts						

17/6/23
Assistant Executive Engineer
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Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
	U' Shape Rods						
	16 mm	133	2.60	345.80	1.62	560.20	
	Distribution Rods						
	12 mm	36	13.00	468.00	0.89	416.52	
	U' Shape Rods						
	16 mm	161	2.60	418.60	1.62	678.13	
	Distribution Rods						
	12 mm	36	15.70	565.20	0.89	503.03	
	U' Shape Rods						
	16 mm	113	2.60	293.80	1.62	475.96	
	Distribution Rods						
	12 mm	36	11.10	399.60	0.89	355.64	
						12749.00	Kgs
		Total Qty =				**12.75**	Tonnes
		Qty Limited to Approved Qty =				**12.74**	Tonnes

Assistant Engineer
Ward No. 11, Byatarayanapura

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Kodigehalli Sub-Division

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